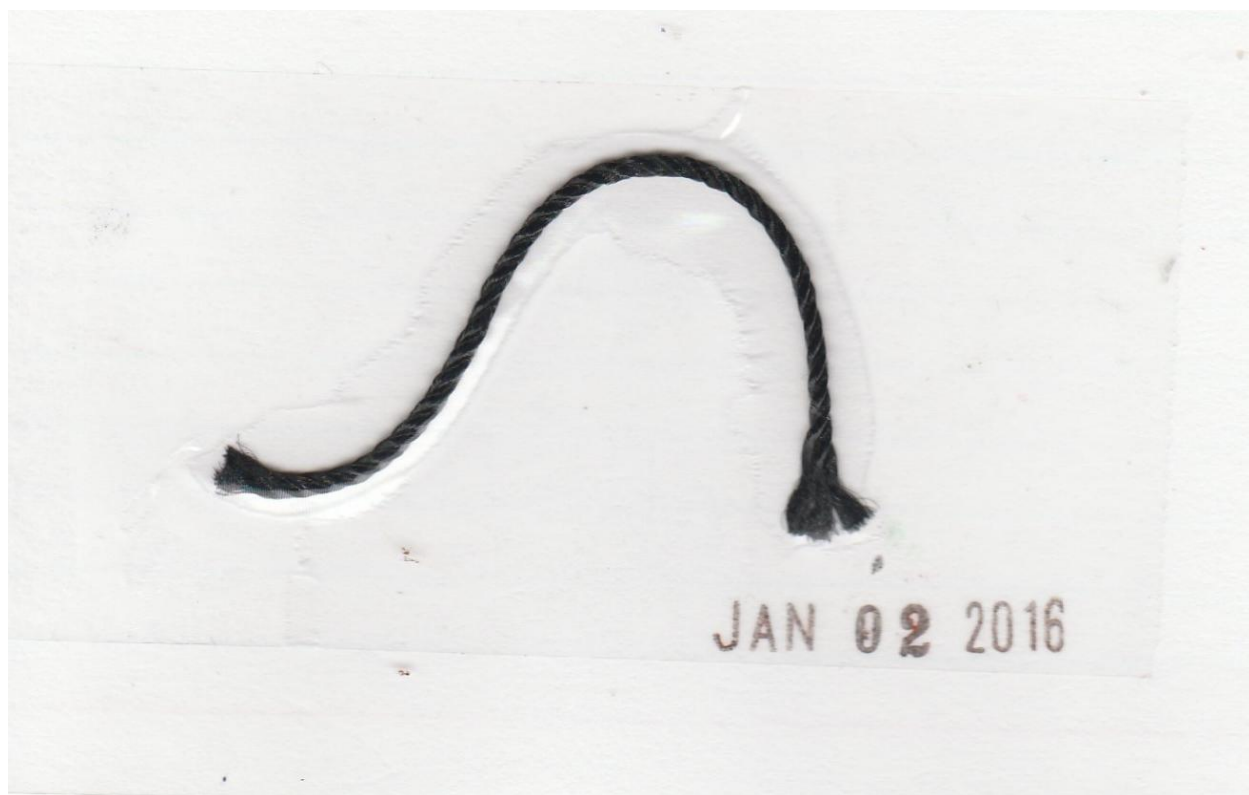


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visual poems ongoing research 2016 -vol. 1







P O N A =

P 9. E M. 20 E M.

P O E M

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JAN 07 2016







A

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JAN 22 2016

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a



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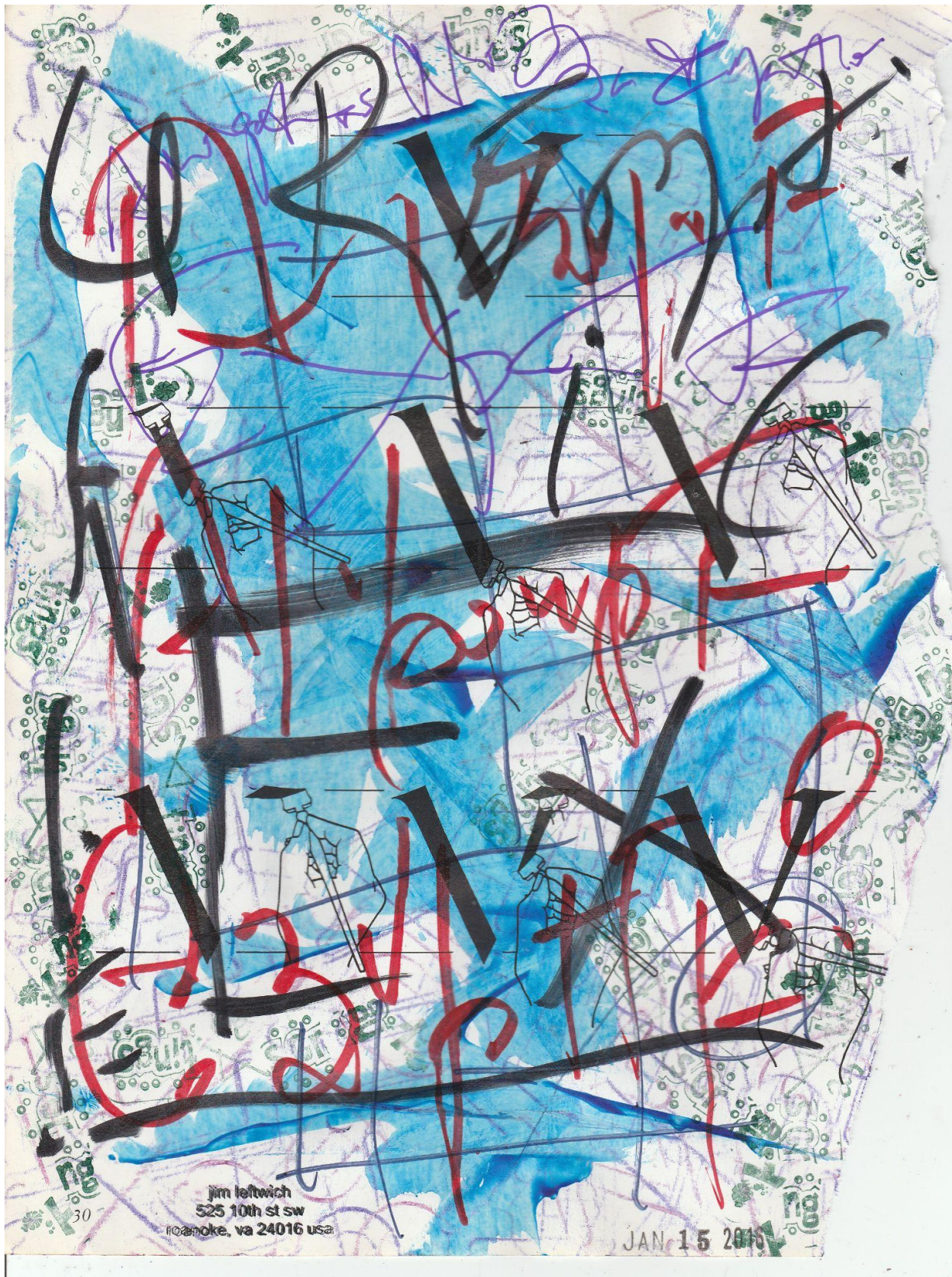


q



JAN 10 1910







*Now Sleeps the Crimson Petal*

Now sleeps the crimson petal, now the white;  
 Nor waves the cypress in the palace walk;  
 Nor winks the gold fin in the porphyry font.  
 The firefly wakens; waken thou with me.

5 Now droops the milk-white peacock like a ghost,  
 And like a ghost she glimmers on to me.

Now lies the Earth all Danaë to the stars,  
 And all thy heart lies open unto me.

10 Now slides the silent meteor on, and leaves  
 A shining furrow, as thy thoughts in me.

Now folds the lily all her sweetness up,  
 And slips into the bosom of the lake.  
 So fold thyself, my dearest, thou, and slip  
 Into my bosom and be lost in me.

1847

*From In Memoriam A. H. H.<sup>2</sup>*

OBIIT. MCCCXXXIII

1

I held it truth, with him who sings  
 To one clear harp in divers tones,<sup>3</sup>  
 That men may rise on stepping-stones  
 Of their dead selves to higher things.

5 But who shall so forecast the years  
 And find in loss a gain to match?  
 Or reach a hand through time to catch  
 The far-off interest of tears?

10 Let Love clasp Grief lest both be drowned,  
 Let darkness keep her raven gloss.  
 Ah, sweeter to be drunk with loss,  
 To dance with Death, to beat the ground,

Than that the victor Hours should scorn  
 The long result of love, and boast,  
 15 "Behold the man that loved and lost,  
 But all he was is overworn."

2

Old Jew, which graspest at the stones  
 That name the underlying dead,  
 Thy fibers net the dreamless head,  
 Thy roots are wrapt about the bones.

5 The seasons bring the flowers again,  
 And bring the firstling to the flock;  
 And in the dusk of thee the clock  
 Beats out the little lives of men.



5 4 3 2 1  
K I M W A V

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PREP





JAN 01 2016

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information, such as gambling.<sup>[1]</sup>

In 1911, Konrad Lorenz published a book titled *Die beginnende Verwirrung: Versuch einer Gestaltanalyse des Wahns* ("The onset of schizophrenia: an attempt to form an analysis of delusion").<sup>[2]</sup> In 1938, he published *Die Entstehung der Schizophrenie* ("The origin of schizophrenia").<sup>[3]</sup> Lorenz's theories on the genesis of schizophrenia have since been partially, yet inclusively, confirmed in psychiatric research.<sup>[4]</sup>

Conrad Lorenz's theory of schizophrenia is based on the idea that a schizophrenic initially experiences delusion as revelation.<sup>[5]</sup>

In contrast to an insight, an insight is an instance where someone does not see what is in the nature of reality. It is a process of repetitively and monotonously experiencing subjective and objective reality. Being observed, spoken about, the object of investigation, it is not by strangers, but by the schizophrenic himself. "Schizophrenia" has a specific meaning, which is defined with the term "Schizophrenie".

"Schizophrenie"

"Schizophrenie"

In 2008, Michael J. Freeman coined the term "schizophrenia" as "the tendency to find patterns in meaningless noise" [7][8]

"Schizophrenie"

In the *Believing Brain*, Michael Freeman wrote that someone has a tendency to find patterns with meaning, intention, and agency", which he called "schizophrenia".

"Schizophrenie"

In 1971, neuropsychologist David L. Rosenhan proposed that schizophrenia is one end of a spectrum and that opposite behaviour (attributing to chance what are apparently patterned or related data) could be called "antischizophrenia". He asserted that human consciousness is real and that schizophrenia is the real world where people are not.

"Schizophrenie"

"Schizophrenie"

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JAN 05 2016







b

o



**A** **B** **C** **D** **E** **F** **G** **H** **I** **J** **K** **L** **M** **N** **O** **P** **Q** **R** **S** **T** **U** **V** **W** **X** **Y** **Z**

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**Apophenia** /əˈpɒːˈfiːniə/ is the human tendency to perceive meaningful patterns within random data.

- 1 Origin of the term
  - 2 Related neologisms
    - 2.1 "Patternicity"
    - 2.2 "A~~...~~..."
    - 2.3 "Randomania"
  - 3 Examples
    - 3.1 Parcidolia
    - 3.2 ~~...~~
    - 3.3 Gambler's fallacy
    - 3.4 ~~...~~
- 4 In literature
  - 5 ~~...~~
- 6 References
  - 7 ~~...~~
- 8 External links

[illegible]

The first use of the term is attributed to Klaus Gernert<sup>101</sup> by Peter Breggin,<sup>102</sup> who defined it as the "unmotivated seeing of connections" accompanied by a "specific experience of an abnormal

[illegible]



Pareidolia is a type of apophenia involving the perception of images

For example, hearing a ringing phone while the noise produced by the running water provides a background from which the mind perceives the sound of a phone. If these common words are combined, the words "Pareidolia" and "Man in the Moon" may appear to be "Pareidolia". People around the world see the "Man in the Moon" [1].

People sometimes see the "Man in the Moon" figure in a face or even in the shape of a person's head.

#### See also

In statistics and machine learning, apophenia is an example of what is known as overfitting. Overfitting occurs when a statistical model fits a particular set of data or observations, but does not reflect a generalizable pattern in the general population.

#### See also

Apophenia is a type of cognitive bias in which people see patterns or connections between unrelated things. It is often associated with the "Man in the Moon" known as the "Man in the Moon".

Apophenia is a type of cognitive bias in which people see patterns or connections between unrelated things. It is often associated with the "Man in the Moon" known as the "Man in the Moon".

Apophenia is a type of cognitive bias in which people see patterns or connections between unrelated things. It is often associated with the "Man in the Moon" known as the "Man in the Moon".

#### See also

- 23 -

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urrent railway service, especially power.  
has been made of the use  
remaining-current speed control  
machine is more common  
locations.  
the speed of a shunt motor  
the armature voltage. Th  
variable field resistor (marked  
a variable armature resistor  
or zero resistance, the motor  
ed. Decreasing the field cur  
resistance) but

JAN 02 2016



ge unchanged will cause the motor to in-  
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ed. Because of the centrifugal forces involved,  
double the base speed. This way is  
resistance in series with the motor is set at  
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current motor may be controlled very effe-  
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JAN 01 2016





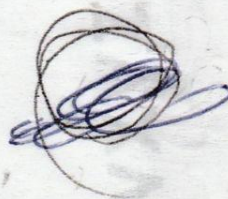


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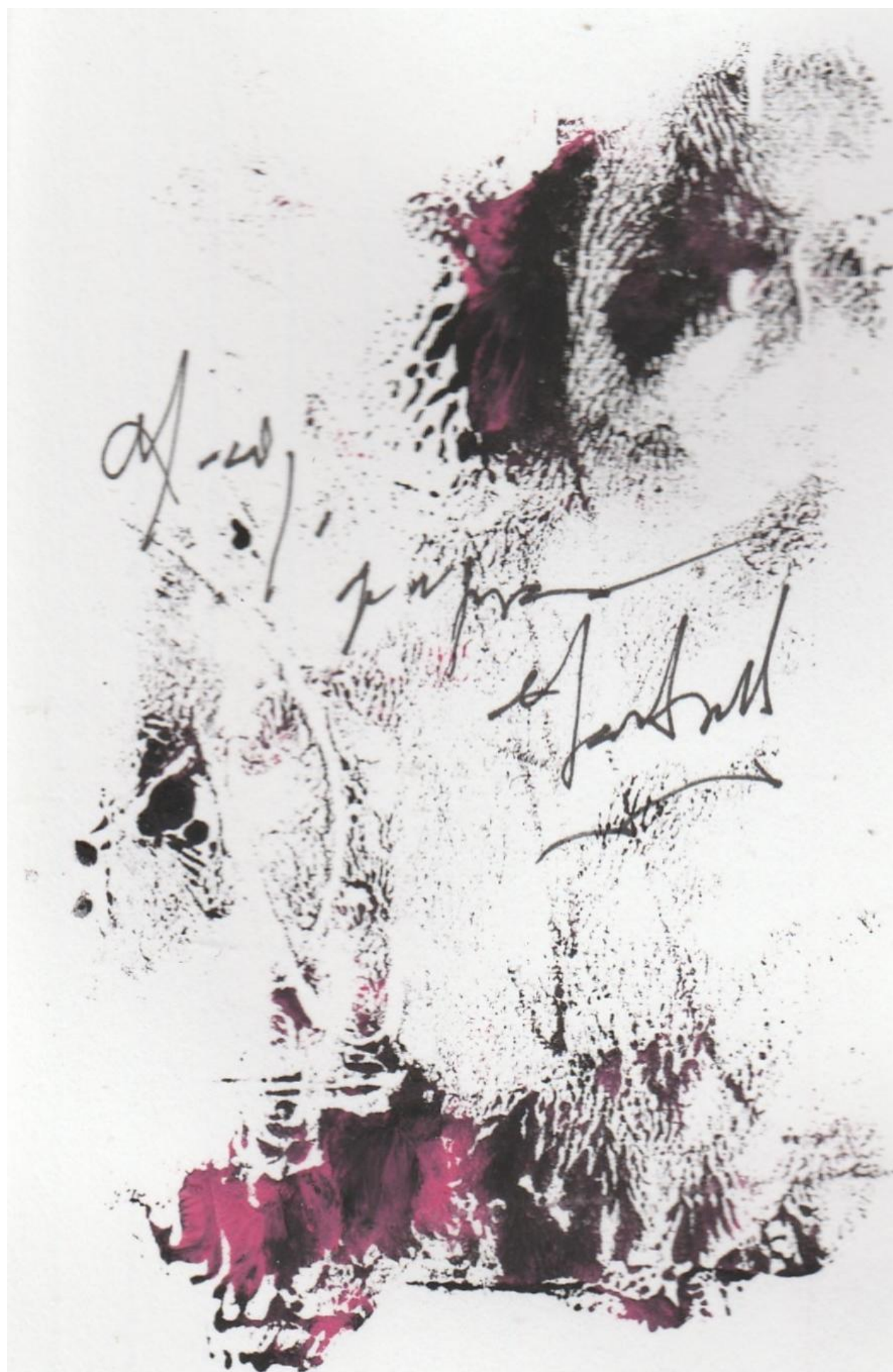
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nopqrstuv

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Handwritten text in black ink on a piece of torn, aged paper. The text is written in a stylized, cursive script, possibly representing a name or a signature. The paper is mounted on a red background.

JAN 02 2016







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## All characters ▼

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Avant Garde Bold

72 Point

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JAN 17 2016

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th, this patient, holy man;  
amp, and riseth from his knees,  
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el aisle by slow degrees:  
dead, on each side, seem  
black, purgatorial rails:  
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nd his weak spirit fails  
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JAN 02 2016



## leisure

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said Mark Twain, "is the very symbol, the outward and visible expression of the drive and push and rush and struggle, tearing, booming nineteenth

## "Baseball,"

First  
practical  
storage  
battery

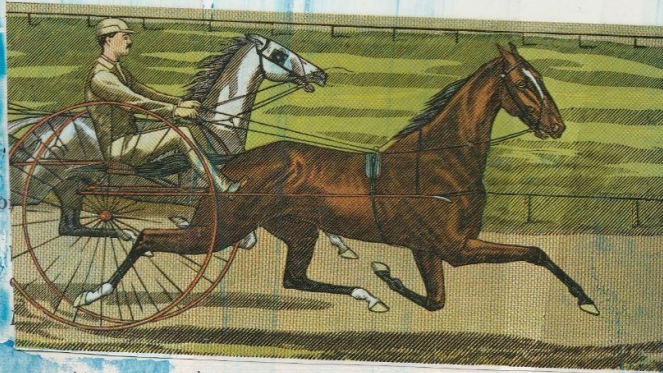
called because the cell is a current so that the cell is a "store" electricity.

The lead-acid cell, the first practical storage battery, was probably the most widely used battery today, was by Gaston Planté, a French physicist, in 1859. The cell consisted of two sheets of lead, separated by strips of rubber and rolled into a spiral. When immersed in a 10 percent solution of sulfuric acid and charged, the cell was capable of storing electrical energy. Though Planté's cell could deliver its stored energy very rapidly (that is,

From G. Vinal, *Primary Batteries* (© 1950), John Wiley & Sons, Inc.

## Han

was a properly utilitarian wheeled carriage raced on Sunday business on weekdays. Jockey, popular, but Churchill Downs was built in 1875, year of the first Kentucky Derby.



porosity \pə-rās-ət-ē\ n.

The quality of being able to absorb liquids and gases.

The POROSITY of a sponge is times its own weight of water.

porphyry \ˈpɔr-f(ə)-rē\ n.

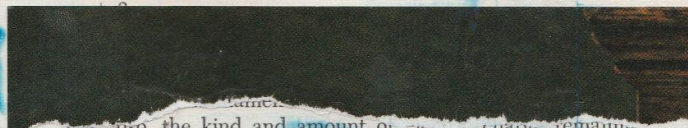
EARTH SCIENCE. An igneous rock called phenocrysts, in a ground mass. Each deposit is named after the material in it, such as granite porphyry.

To be classified as a PORPHYRY or more phenocrysts.

positive \ˈpəz-ət-iv\

1. MATHEMATICS (Adj.). Relative to an integer or any quantity greater than zero. A photographic print on film.

A POSITIVE number is sometimes indicated by a plus (+) sign,



also, the kind and amount of electric charge remaining when a hydrogen atom loses one electron; also, the electrical

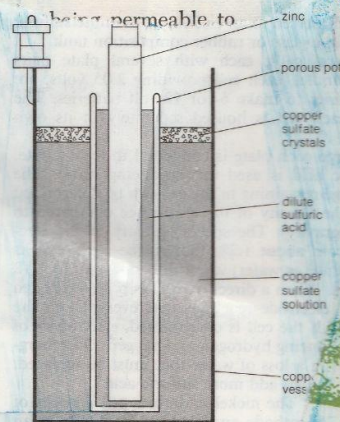


Figure 42: A Daniell cell.



PORPHYRY





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Fuel  
and  
continuously  
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ies. Things as flashlights and  
internal-combustion engines,  
vehicles, submarines,  
emergency

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ventura  
plumtree

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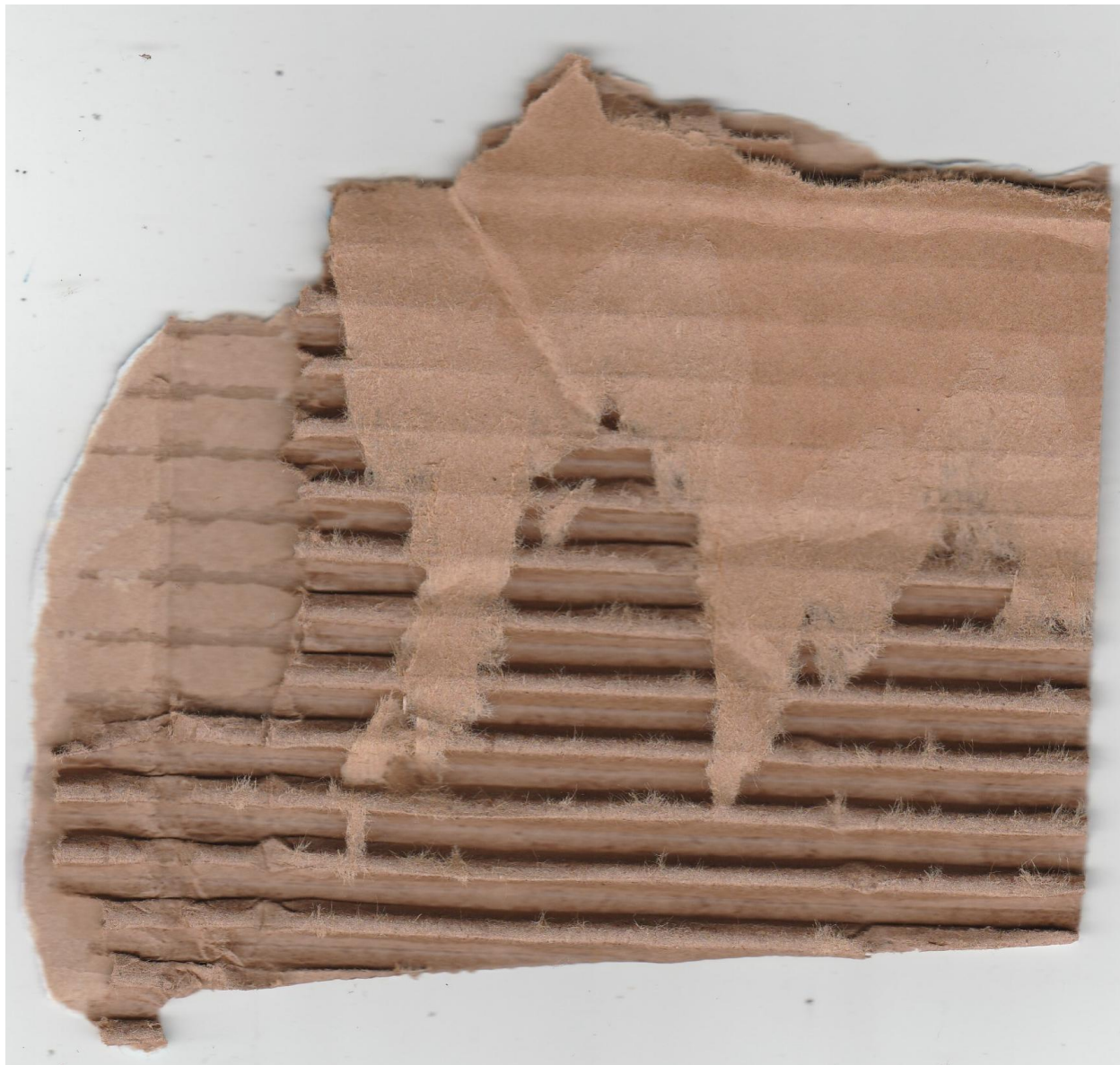








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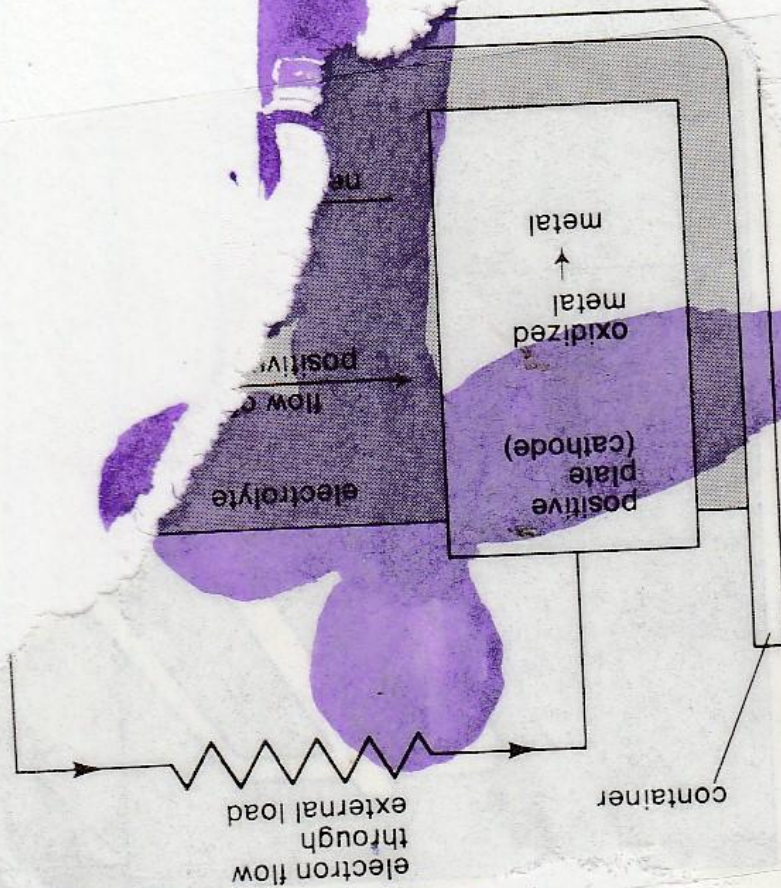




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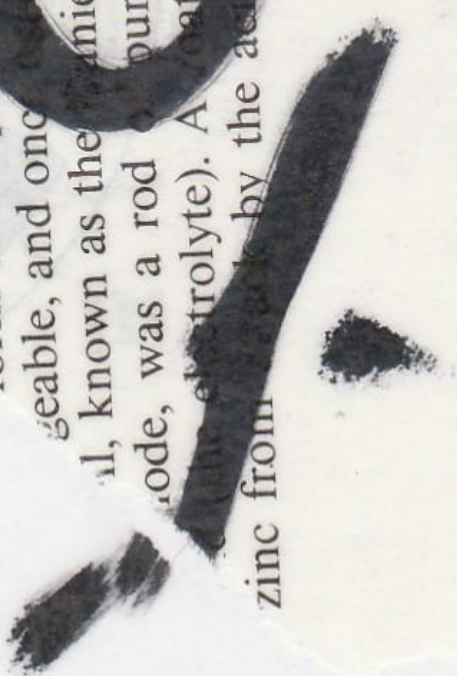
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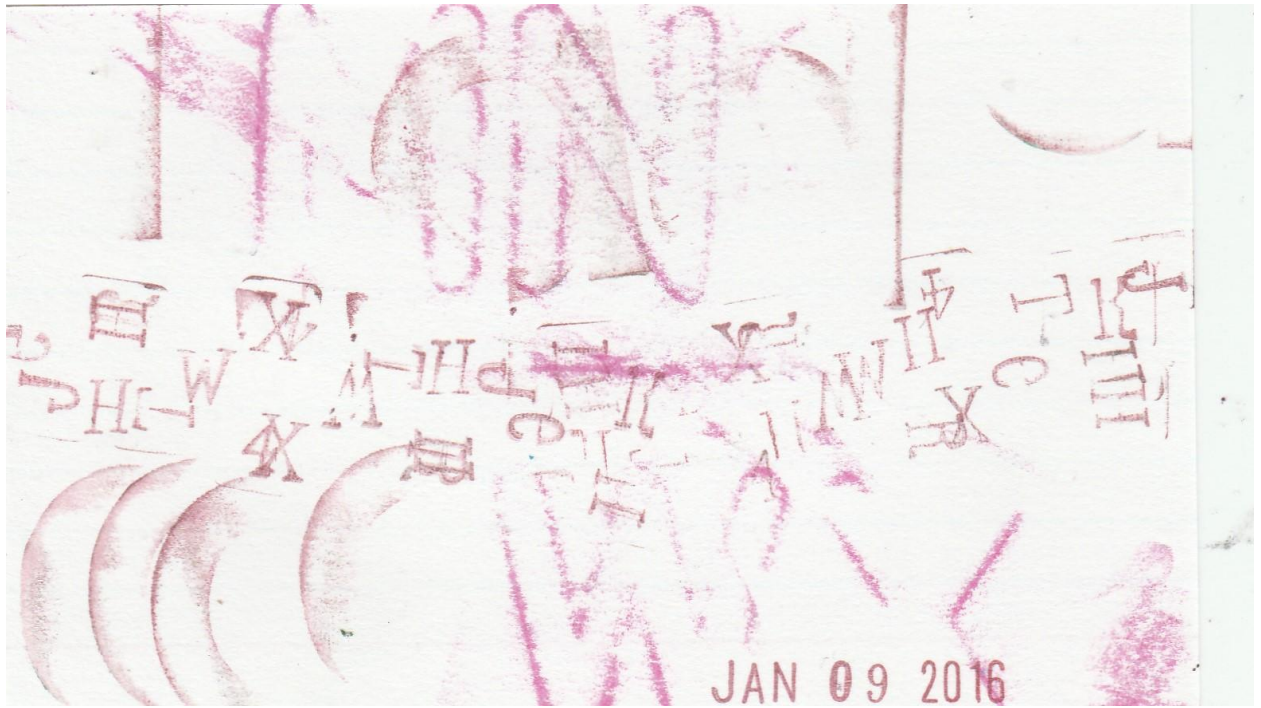
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JAN 07 2016





- Alignments of random points
- Clustering illusion
- Confirmation bias
- Constellation
- Doodles
- Hot-hand fallacy
- Ramsey theory
- Trencher shooter fallacy
- Ulam spiral

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## THEORY

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co



## External links

- Skeptic's Dictionary (<http://skeptdic.com/apopenia.html>): Robert Todd Carroll's article on apopenia

Look up *apopenia* in Wiktionary, the free dictionary.

Retrieved from "https://en.wikipedia.org/w/index.php?title=Apopenia&oldid=700443655"

Categories: Cognition | Coincidence

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Avant Garde

60 Point

ABCDEFGHIJKL  
MNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz

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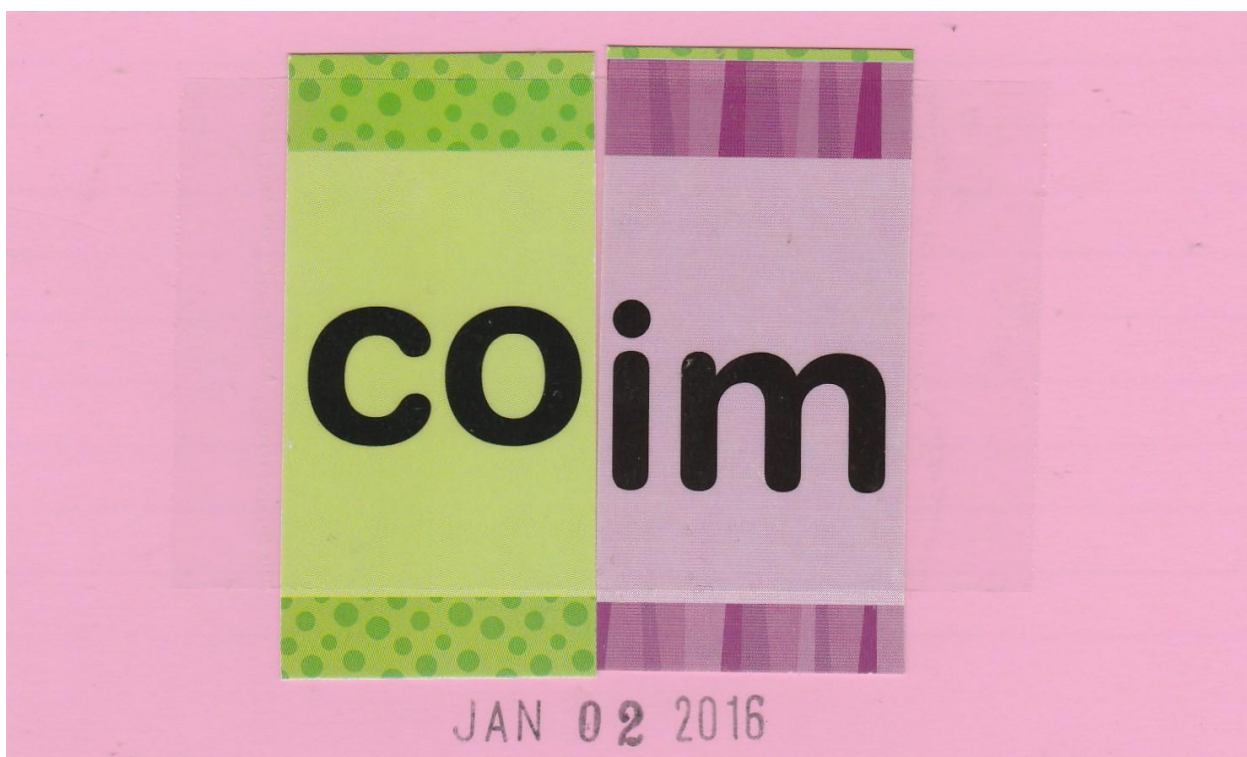
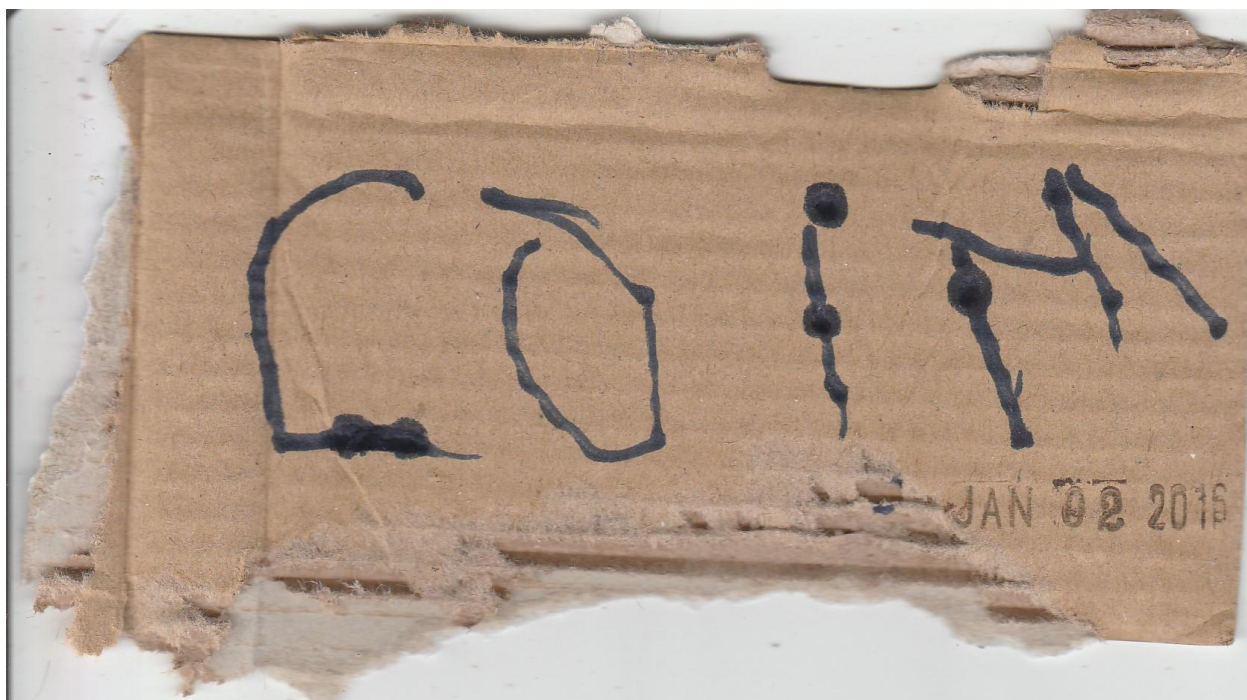
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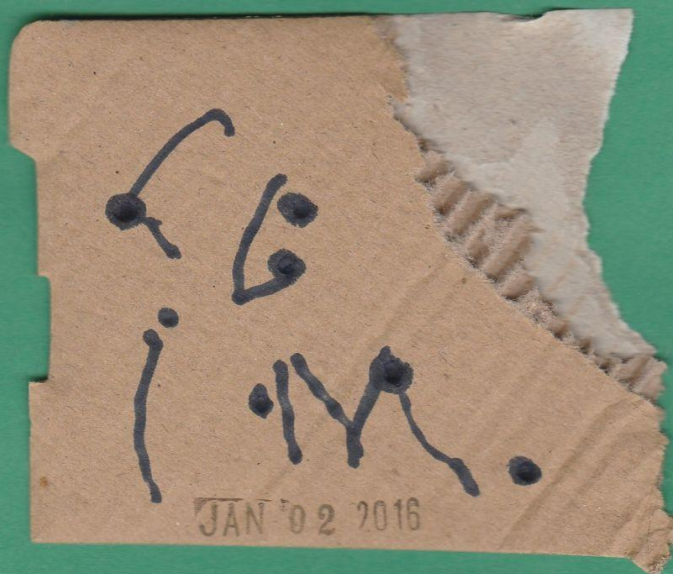
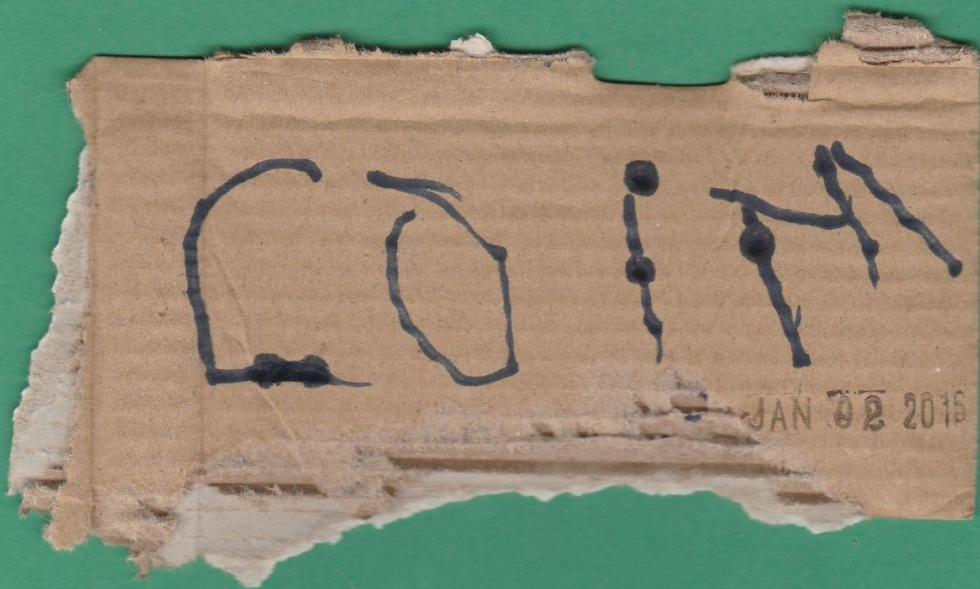


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## Energy Conversion

are used for alternating-current on 25- and 16 2/3 third-hertz speed control. Mention commutator motors for all however, the direct-current used for variable-speed applications is to vary the field current or rheostat in Figure 39A) and both of these are set for operation at its base speed (i.e., increasing the field current voltage in speed).

JAN 02 2016





unique hunting JAN 16 2016 Holiday customs

and some of the holidays were born in our Victorian era. Thomas Nast's 1862 sketch of

id not "have things Mayflower." An art ised them that "n look... are... the drawers having for the fowls."

## Groquet

kets came equipped playing a night. By lawn bow 3.

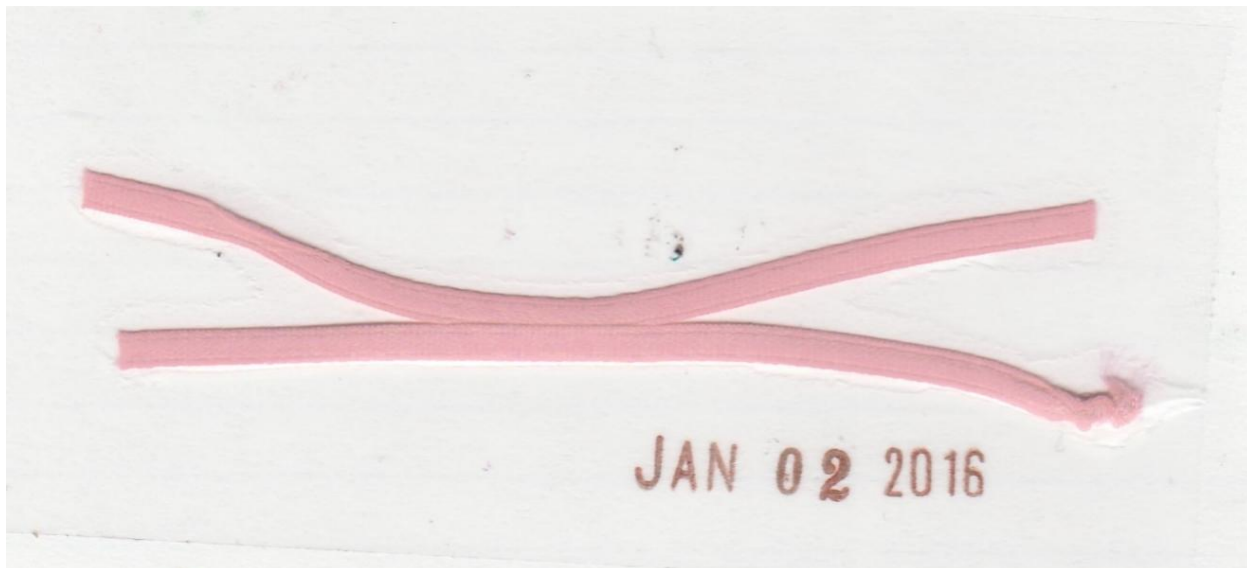
inaugurated White House lawn. I launched in 1868, Arbor Day, but in 1880 Harper's magazine mourned the demise of a holiday—the commercial, impersonal St. Valentin

oration



Christmas seal





stages

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currents in both the a...  
Hence the armature reverses and... Common  
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These motors are clean-  
iced. These vacuum cleaners for  
liances as small motors, since  
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CVVvy

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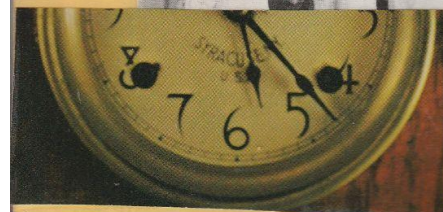
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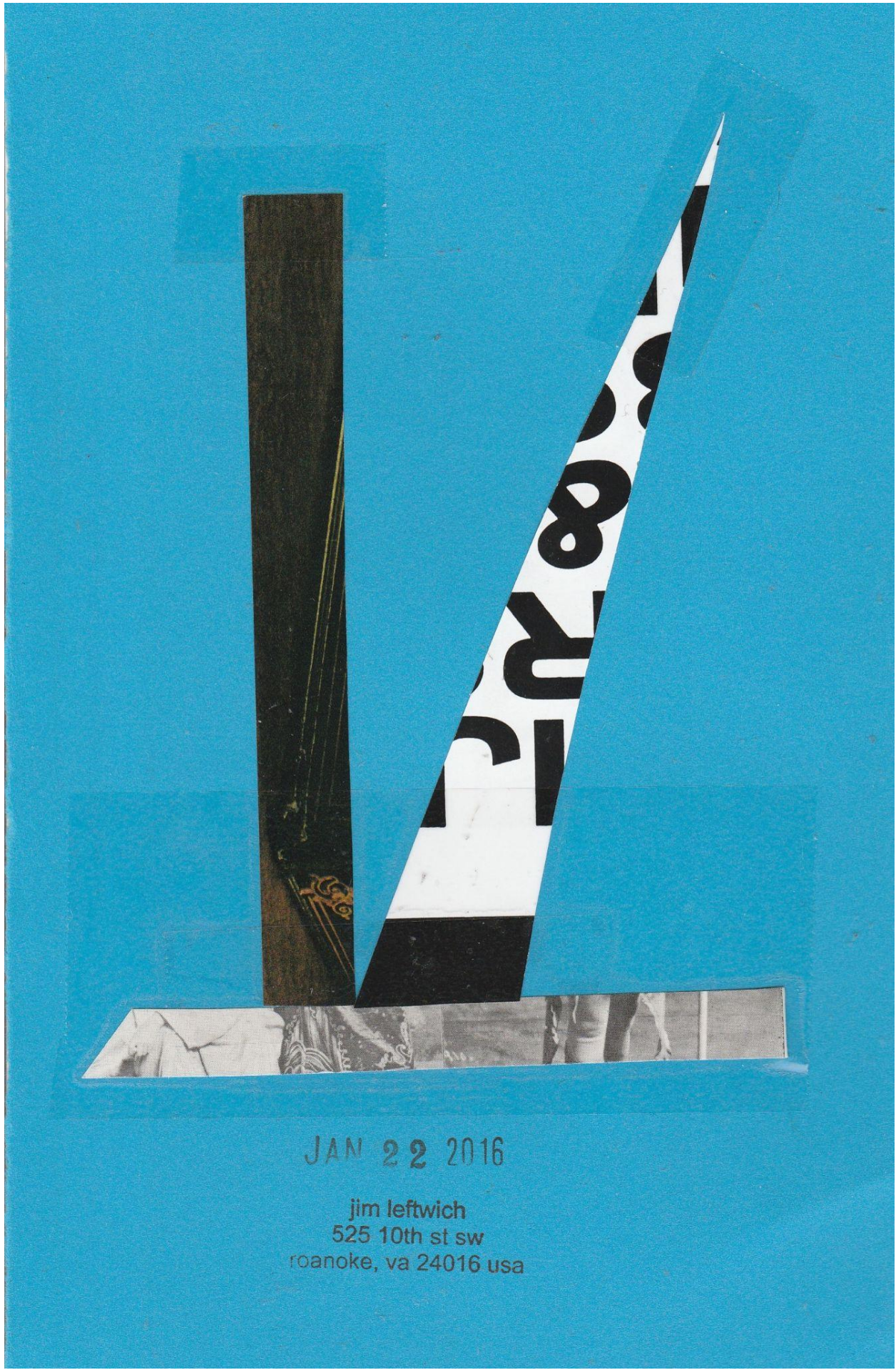
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devices.

An Italian professor of anatomy  
accidentally discovered that  
a direct or continuous flow of  
electrical conductor by bringing two  
in contact with a moist substance.  
On Galvani's discovery, Alessandro  
philosophy at the neighbouring  
the first battery, the epoch-  
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Battery applications  
radios, starting systems  
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lighting, and communications

### HISTORY

In 1791 Luigi Galvani, a  
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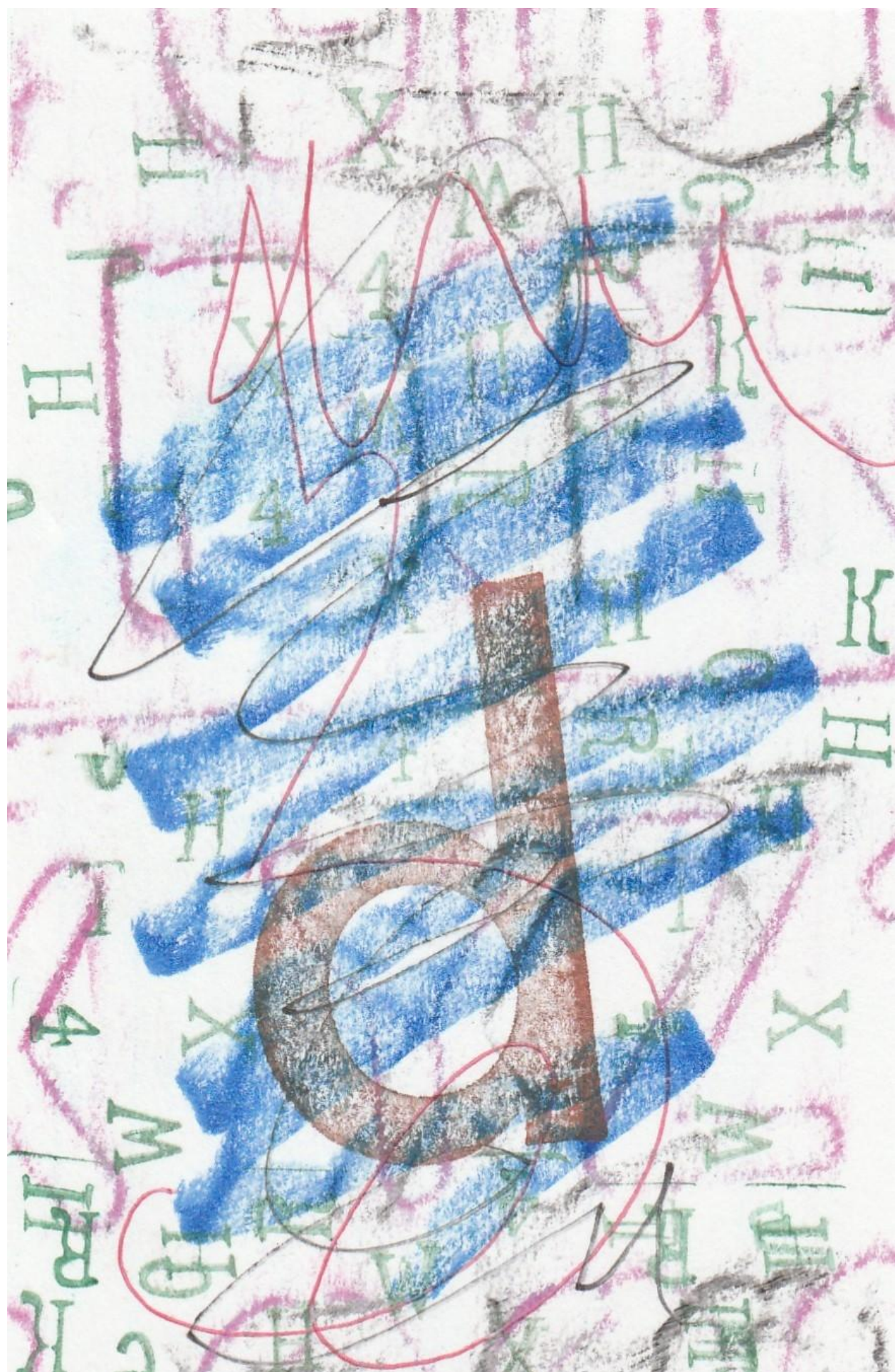
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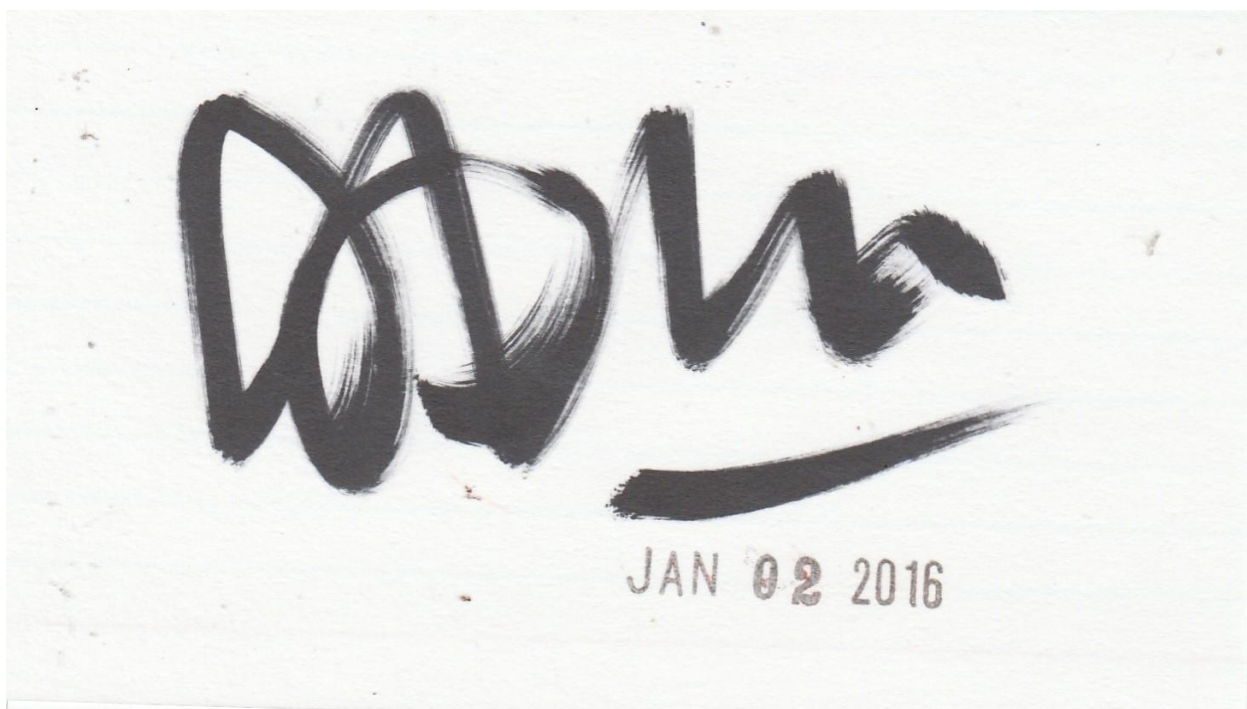
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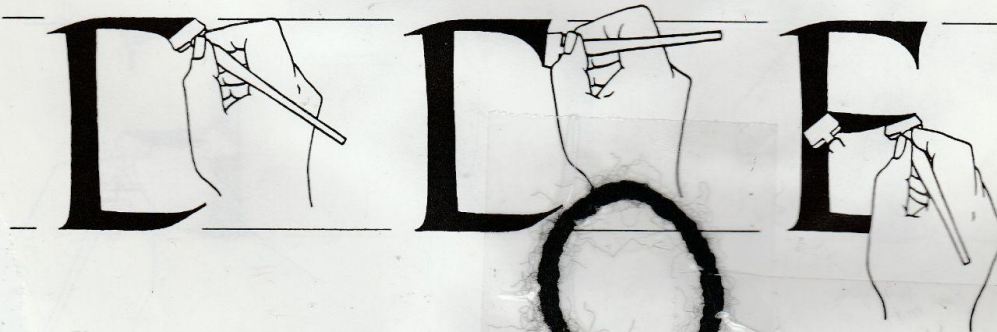
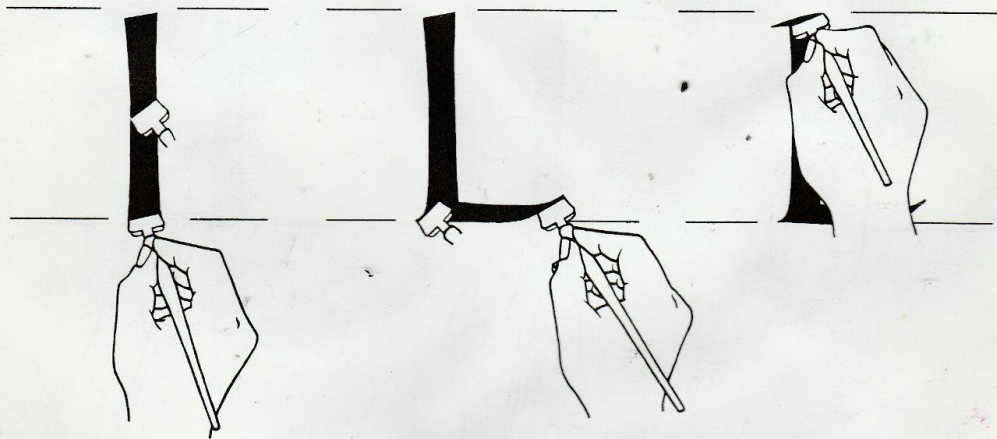








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coralis liber (*Pastoralis*)  
original works; the ver-  
from the Latin included  
Of far greater literary in-  
Boethius, *Consolatio*  
*Soliloquies*, which  
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in 1911.

Handwritten text on a pink strip, possibly a signature or date.



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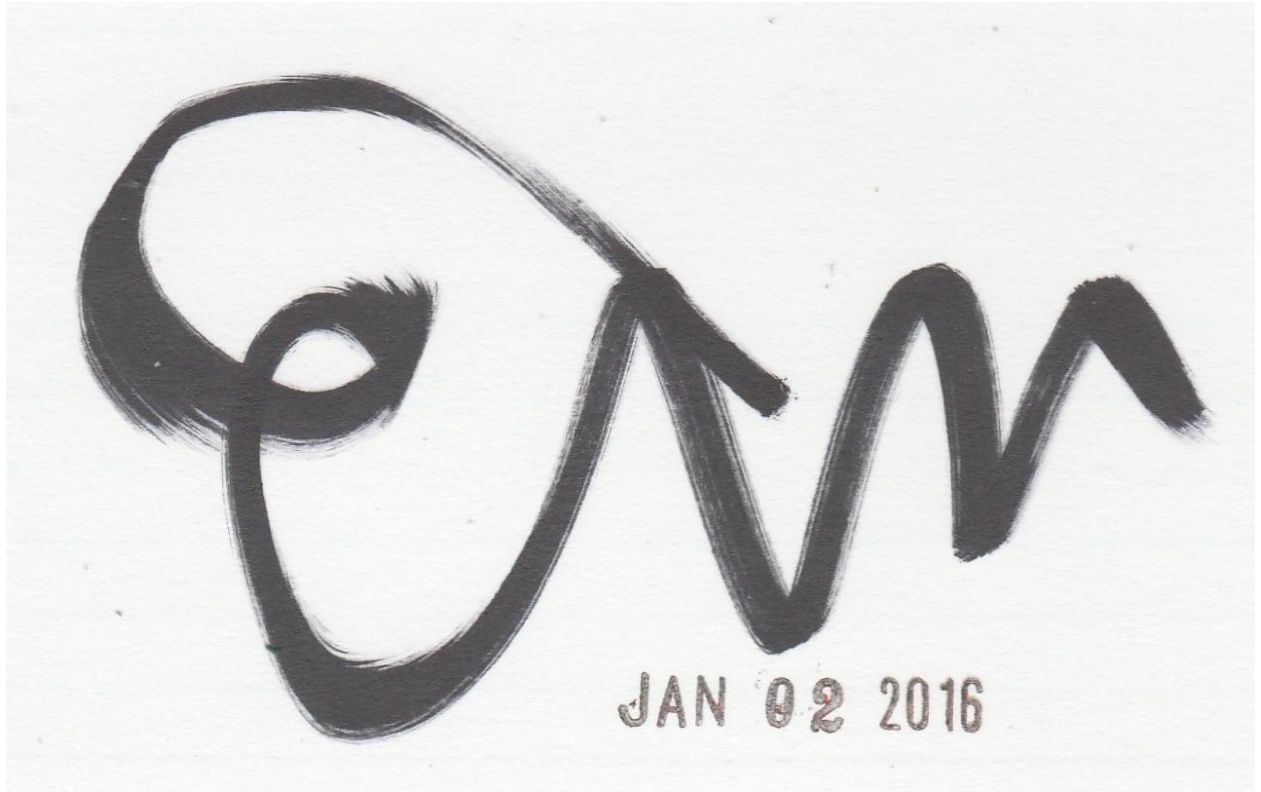
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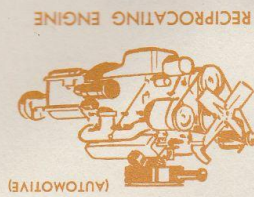
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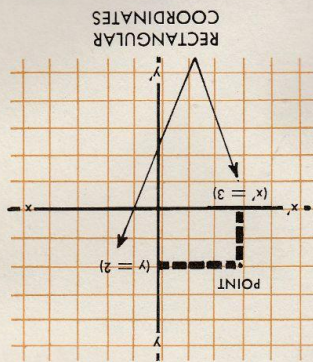


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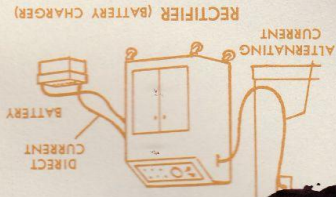
reciprocating engine \ri-'sip-re-'kat-ing 'en-jan\  
ENGINEERING. An engine in which the reciprocating, or back-  
and-forth, motion of a piston is changed to rotary motion by  
a crankshaft and connecting rod.  
The RECIPROCATING ENGINE of the automobile may eventually  
be replaced by a turbine.



RECIPROCATING ENGINE



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...ectrons that are released at the anode  
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has been used, the capacity of the cell  
will be completely exhausted—the voltage  
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other words, the electrode volume (or  
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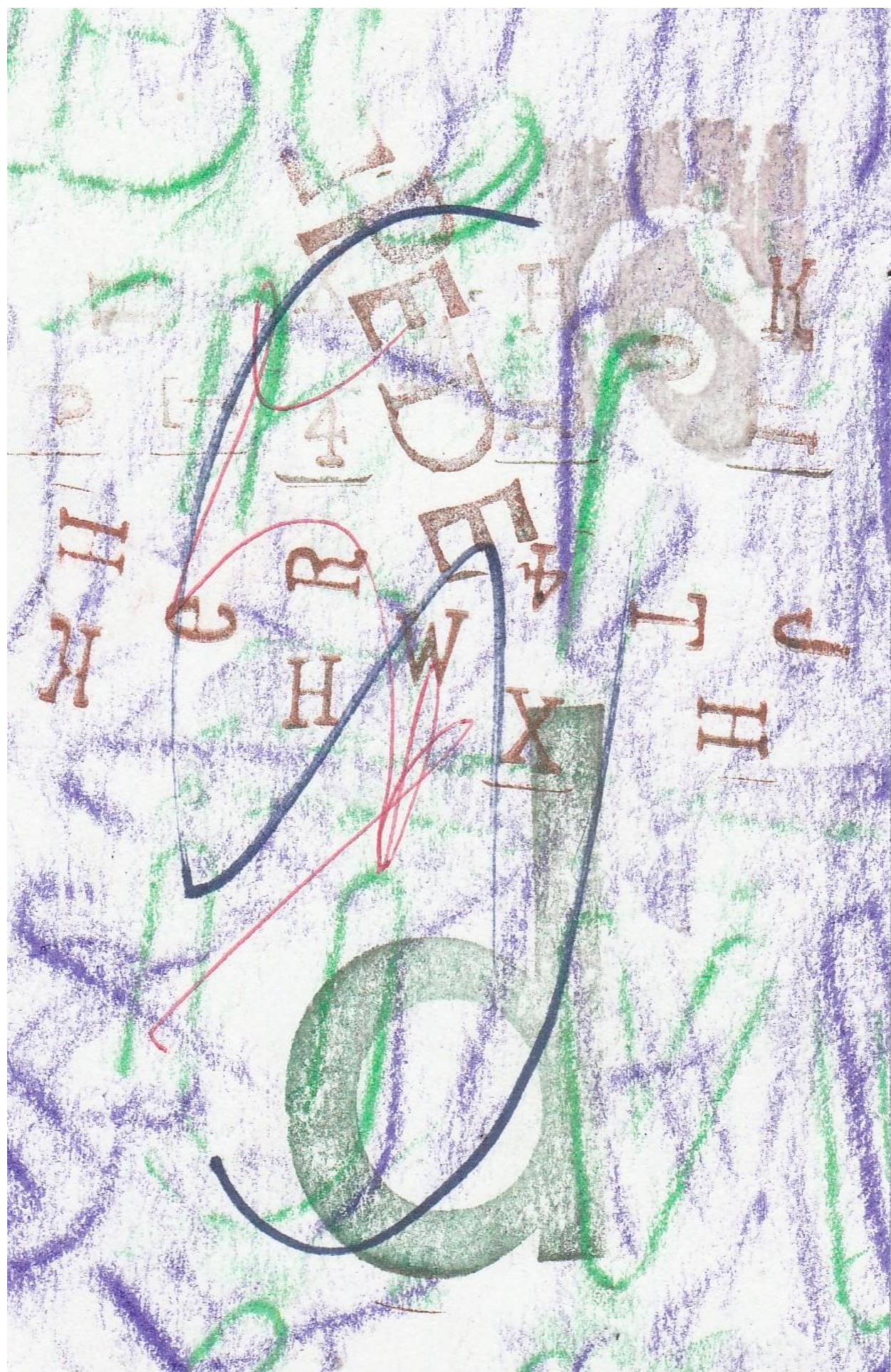
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very small sizes ( $1/8$  inches in size) reduced-impedance rheostat in series with the speed, the impedance is reduced to zero. In many cases, the impedance is determined by the number of turns or the length of the wire.

the quantity of electricity accepted at the electrode has been determined by the thickness of the electrode, or, in the case of a fuel cell, the thickness of the gas or oxygen or air supply. The electrode is uncharged.

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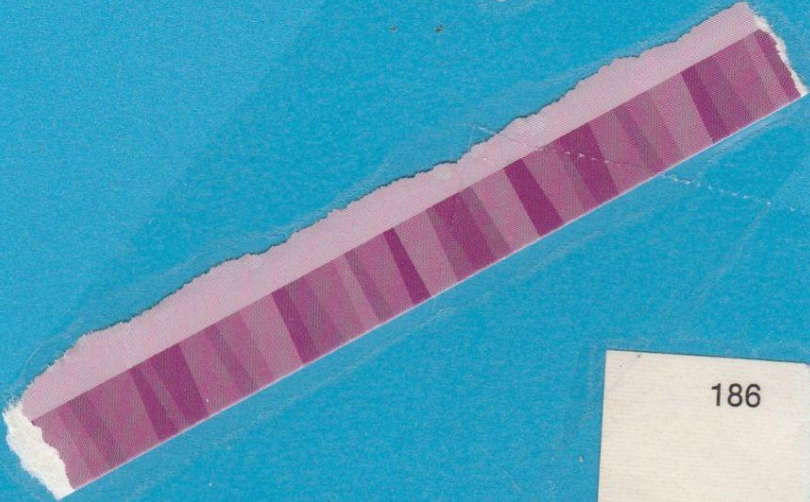
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- Skeptic's Dictionary (<http://skeptdic.com/apophenia.html>): Robert Todd Carroll's article on apophenia



Look up ***apophenia*** in Wiktionary, the free dictionary.

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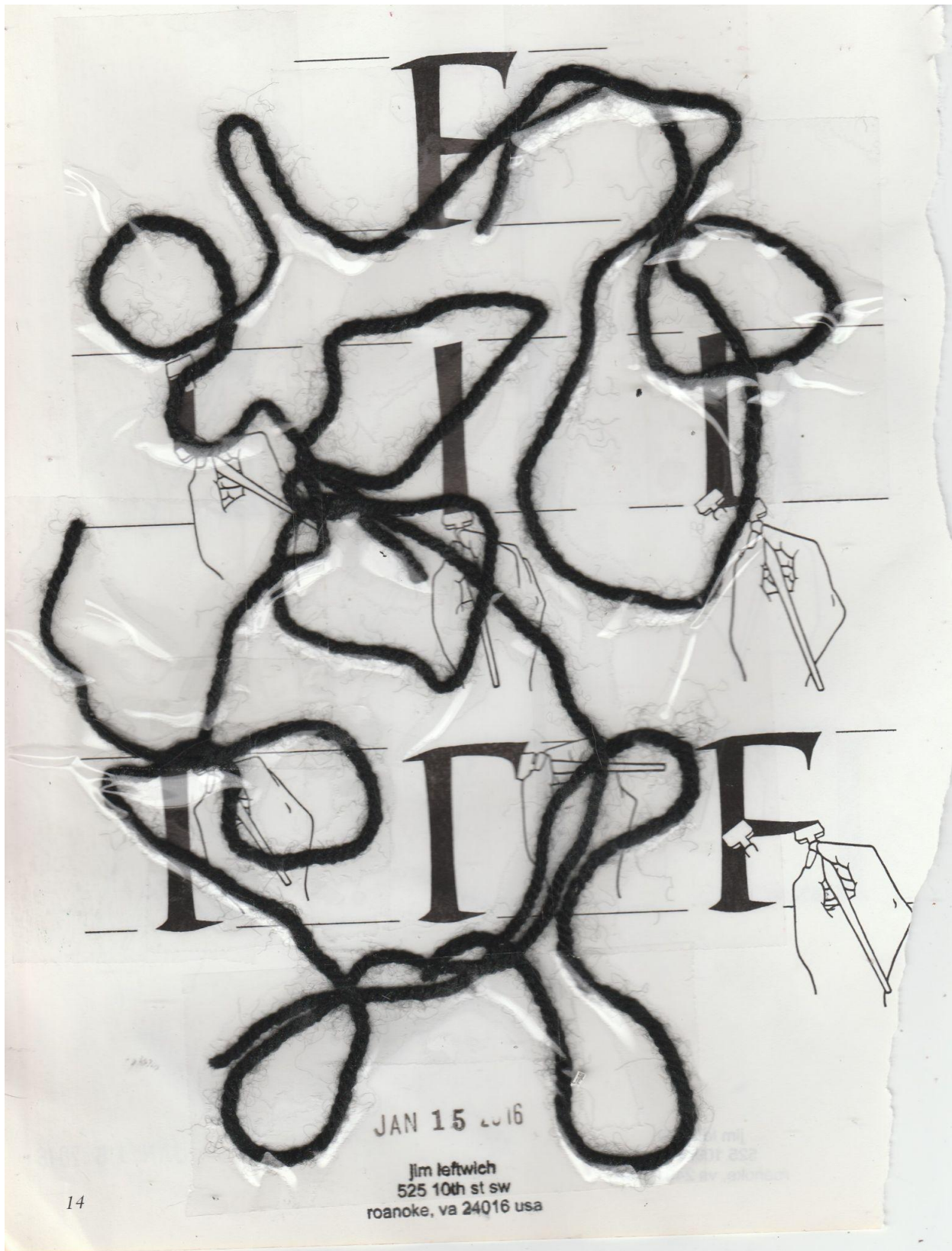


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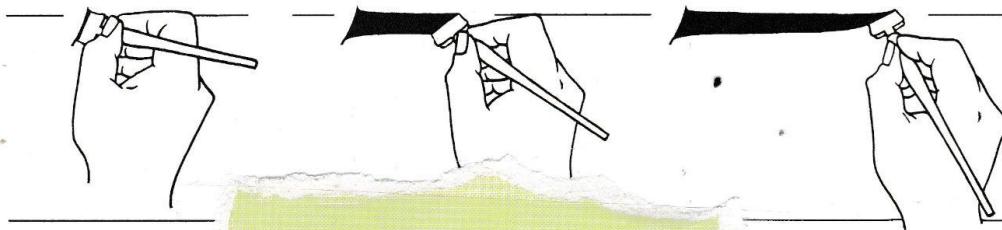
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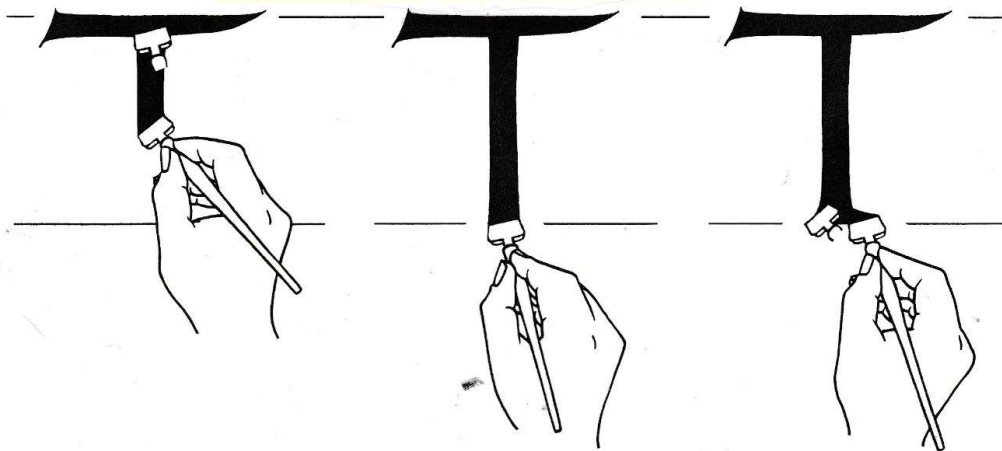




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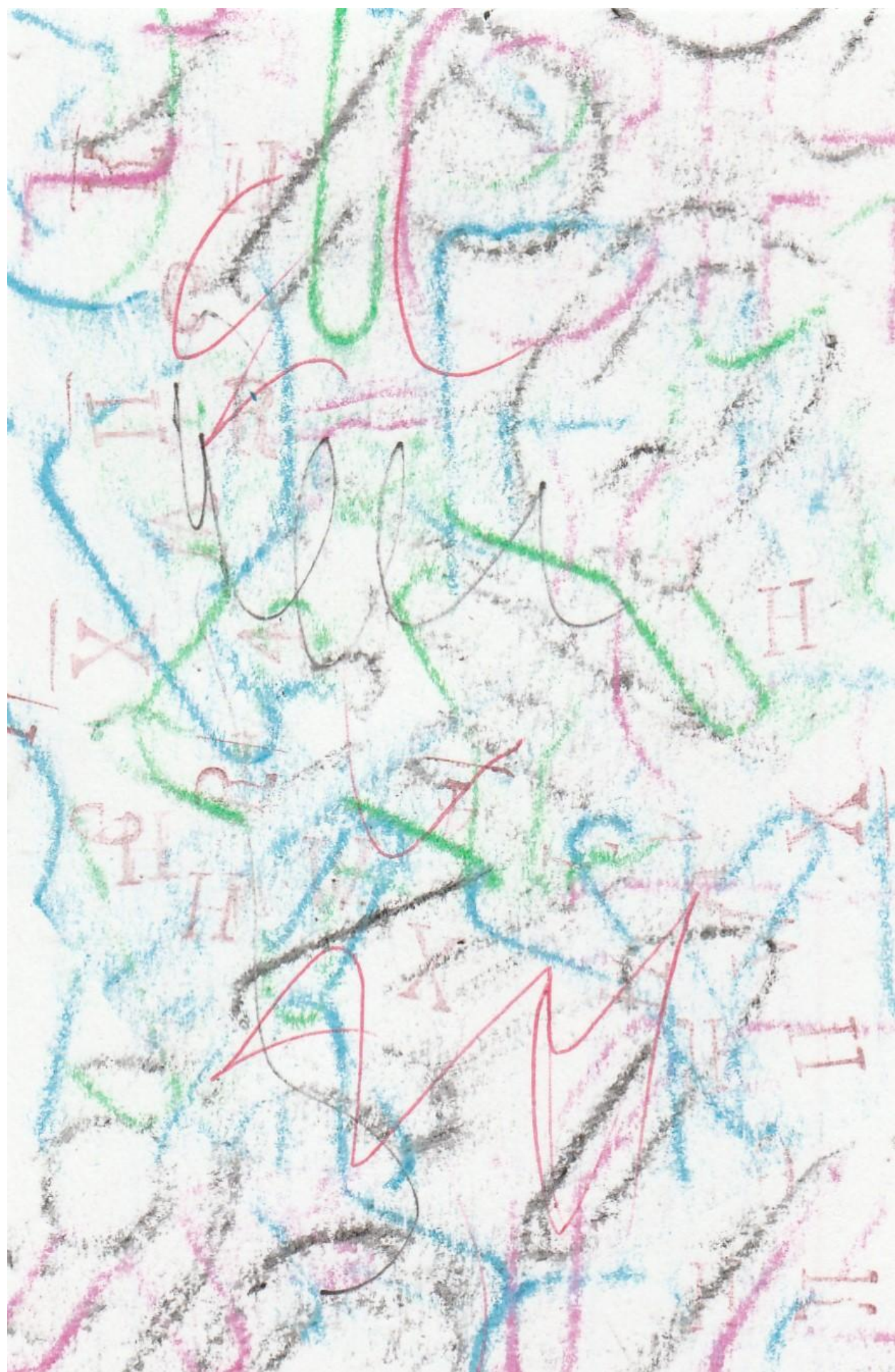
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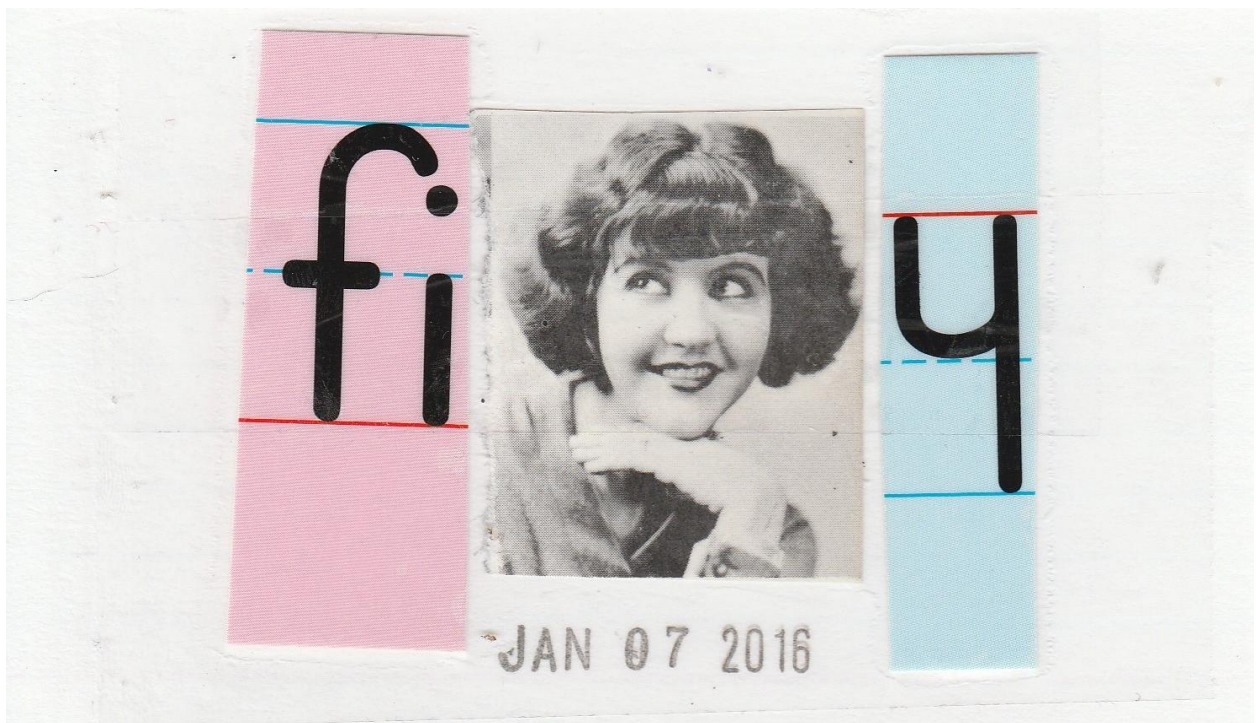
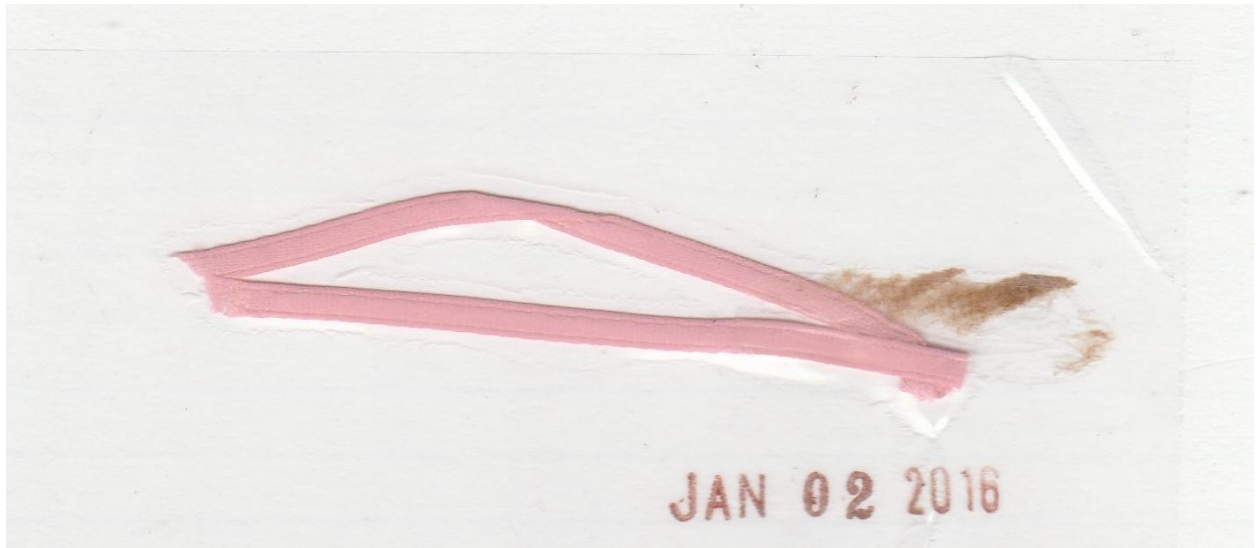


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turn produces an electromotive force of one volt in it as it is reduced to zero at a uniform rate in one second.) Though higher fields would increase power density, the electric fields in the duct, the forces in the magnet windings, and the magnet costs become impractically high at fields above this value. For the linear duct, the magnet geometry is unusual; a double-saddle geometry as shown in Figure 46 is preferred since it provides an almost uniform field across the duct and allows the channel to pass straight through the magnet.

Superconducting magnets

The conductor choice lies between copper at room temperature, cryogenically cooled aluminum and sodium, and superconductors such as niobium-titanium. For central-station generation, the higher initial cost of the superconducting (zero electrical resistance) winding is more than offset by the power consumption of resistive windings. Because the energy stored in the magnet is enormous, the magnet must be protected from damage during rapid shutdown. For peaking or emergency power the magnet requirements are different. Since a superconducting magnet requires continuous refrigeration, an iron-core copper magnet, self-excited by part of the generator output (and not requiring such refrigeration), may be preferred.

**Steam plant and seed recovery.** The heat-recovery unit contributes one-third to one-half of the combined plant output so that its capital cost and efficiency are important factors. In many respects, the steam plant topped by an MHD generator is similar to a conventional plant. The major differences are: radiant heat transfer in the boiler is reduced as the MHD exhaust contains no soot; the seed-laden gas is more corrosive; seed deposits on the boiler tubes reduce heat-transfer rates; the air heater must be incorporated into the heat-recovery unit; and most of the conventional regenerative-boiler-feed water heaters are eliminated because the feed water now cools the MHD duct and combustion chamber, reducing the steam-cycle efficiency.

The heat-recovery unit also recovers the seed. Since the cost of the injected potassium seed is several times the cost of the fuel, 99 percent seed recovery is required for an economic system. The cost of cesium seed would require 99.9 percent recovery, which is probably impractical. About 80 percent of the seed is deposited in the air heater and steam plant, the remaining 20 percent is removed in an electrostatic precipitator. The seed is then processed and recycled.

**Environmental factors.** One benefit of increased overall efficiency is reduced heat loss to the environment. The thermal pollution of lakes and rivers caused by the discharge of condenser-cooling water from conventional fossil-fueled and nuclear plants is a significant and increasing problem.

Conventional fossil-fueled plants are a major source of sulfur oxides, nitrogen oxides, and particulates. The higher combustion temperatures in the MHD system substantially increase the nitrogen oxides, though the sulfur oxides remain unchanged. The need to recover the seed requires a cleaning system that removes a high percentage of all particulates, though additional gas cleaning equipment is also required.

#### ELECTROGASDYNAMIC DEVICES

**Electrostatic generator performance.** The EGD device illustrated in Figure 47 has several attractive features. Like MHD devices, it has no moving parts and high gas temperatures can be used. Since the gas must be an electrical insulator instead of a conductor, an EGD device can operate over the whole available gas temperature range. (Conductance of a gas changes with temperature.) Thus EGD is not restricted to "topping" applications, as is MHD. The electrical output is direct current, very high voltage, and is therefore suitable for long distance transmission without any need for dc/ac converters and transformers.

For a number of complex reasons, however, EGD generator performance is rather limited. For example, the electrical output of a single EGD channel (or generator) does not exceed about 50 watts. The size is limited by the electrical breakdown strength of the gas and the maximum useful voltage between electrodes. Considerable unavoidable

energy loss is part of the EGD process. Thus, with today's technology, EGD generator performance still has serious drawbacks. In comparison with MHD devices, the large difference in size of the two devices is one drawback. The MHD generator size is not limited in any fundamental way; the EGD converter is limited by the very high electric fields required for high power densities.

**Electrostatic power generation.** When an EGD device is incorporated into a power-generating cycle, high-pressure, high-temperature gas expands through the EGD generator, and power is extracted from the flow. Because the power extracted in each single EGD converter is small, however, the pressure drop across each unit is small, and many units must be connected in series and in parallel to obtain acceptable cycle efficiency and power output for bulk power generation.

Fossil-fuel-fired open-cycle systems have been proposed. In these, air would be compressed and burned with fossil fuel at high pressure in a combustor; the hot gases carrying small particles (usually fly ash) would enter the EGD generator, where the particles would be charged at the entrance to each channel. At each channel exit, the current would be collected; at the next channel entrance the ash particles would be recharged. All of the corona and collector electrodes would be connected in parallel since the voltage across each stage is high (1,000,000 volts) and any other connection would give a still higher voltage. Depending on the assumptions made, the efficiencies predicted for such cycles can be comparable with conventional power-generating systems, and it is expected that the capital cost of the EGD device could be much lower.

Fossil-fuel-fired open-cycle systems

#### ASSESSMENT

Aside from MHD flowmeters and pumps for special applications, the greatest promise for MHD devices is in central-station power generation. The open-cycle system, with an MHD generator topping a conventional steam unit, has the potential for using our large fossil-fuel reserves more effectively through higher cycle efficiencies.

A number of technical problem areas remain, however, particularly in regard to the high-temperature air heater and long-life requirements for the MHD duct. It is not possible, therefore, to estimate precisely the capital costs of a central-station MHD-steam system, nor to be sure what increase in efficiency over a conventional fossil-fired plant can be attained. MHD systems must also compete with developments in the nuclear-power industry. In Great Britain and France, the economic advantages of MHD were not thought sufficient to make the high development costs worthwhile; their MHD research programs had been discontinued by 1970. But in the Soviet Union, which has the largest MHD effort in the world, work on a substantial scale continues with an MHD-steam pilot plant of 75-megawatt output in Moscow. In the U.S. development of individual plant items is expected to continue, but construction of a complete pilot plant will have to await solutions to the remaining technical problems. There are no prospects at present for developing closed-cycle MHD systems on a comparable scale. The prospects of EGD for bulk power generation are not promising. The large number of parallel and series units required for a generator of useful size makes the concept of marginal feasibility. The EGD converter may find use, however, as a small, high-voltage power supply. (J.B.H./Ed.)

#### Thermoelectric devices

Thermoelectric devices are devices that either convert heat directly into electricity—in the case of thermoelectric generators—or provide cooling by passing an electric current through appropriate materials—in the case of thermoelectric refrigerators. Both devices are based on thermoelectric effects involving interactions between the flow of heat and of electricity through solid bodies. Although the effects themselves were discovered in the first half of the 19th century, it is only in the last few decades that the devices based on them have begun to compete with conventional generators and refrigerators. The growing knowledge of solid-state physics in general and of semiconducting materials in partic-







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